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CHAPTER 2

LIGHTING AND LIGHT-SIGNALLING DEVICES OF TWO OR THREE-WHEEL MOTOR VEHICLES

ANNEX I

GENERAL REQUIREMENTS APPLYING TO THE COMPONENT TYPE- APPROVAL OF A TYPE OF LIGHTING AND LIGHT-SIGNALLING DEVICE FOR TWO OR THREE-WHEEL MOTOR VEHICLES

1.	.....
.....
.....
1.1.	.....
1.2.	.....
1.3.	.....
1.4.	.....
1.5.	.....
2.	APPLICATION FOR THE COMPONENT TYPE-APPROVAL OF A TYPE OF DEVICE
2.1.
2.1.1.
2.1.2.
2.1.3.
2.2.
2.2.1.
2.2.2.
2.3.
2.4.
2.4.1.
2.4.1.1.
2.4.1.2.
2.4.2.
2.5.
2.6.

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3. ADDITIONAL REQUIREMENTS CONCERNING THE MARKING OF AND MARKS ON DEVICES

3.1.

3.1.1.

3.1.2.

3.1.3.

3.1.4.

4. COMPONENT TYPE-APPROVAL OF A DEVICE

4.1.

5. MINIMUM REQUIREMENTS FOR CONFORMITY OF PRODUCTION CONTROL PROCEDURES

5.1. General

5.1.1.

5.1.2.

5.1.3.

5.1.4.

5.1.5.

5.2. Minimum requirements for verification of conformity by the manufacturer

.....

.....

5.2.1. Nature of tests

.....

5.2.2. Methods used in tests

5.2.2.1.

5.2.2.2.

5.2.2.3.

5.2.2.4.

5.2.3. Nature of sampling

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5.2.4. Measured and recorded photometric and colorimetric characteristics

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5.2.5. Criteria governing acceptability

.....
.....

6. MINIMUM REQUIREMENTS FOR SAMPLING BY AN INSPECTOR

6.1. General

6.1.1.
6.1.2.
6.1.3.

6.2. First sampling

.....
6.2.1.
6.2.1.1.
6.2.1.1.1.
.....

6.2.1.1.2.

6.2.2.
6.2.2.1.
6.2.2.1.1.
6.2.2.1.2.

6.2.3. Approval withdrawn

.....
6.2.3.1.
6.2.3.2.

6.3. Repeated sampling

.....
6.3.1.
6.3.1.1.
6.3.1.1.1.
.....

6.3.1.1.2.

6.3.2.

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6.3.2.1.

6.3.2.1.1.....

6.3.3. Approval withdrawn

.....

6.3.3.1.

6.3.3.2.

.....

Appendix 1

Colours of Light emitted

Trichromatic co-ordinates

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Appendix 2

Examples of arrangements of approval marks

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Example of EC component type-approval mark

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ANNEX II

REQUIREMENTS CONCERNING THE COMPONENT TYPE-APPROVAL OF FRONT POSITION (SIDE) LAMPS, REAR LAMPS, STOP LAMPS, DIRECTION-INDICATOR LAMPS, REAR REGISTRATION-PLATE ILLUMINATING DEVICE, FRONT FOG-LAMPS, REAR FOG-LAMPS, REVERSING LAMPS AND RETRO-REFLECTORS FITTED TO TWO OR THREE-WHEEL MOTOR VEHICLES

1. DEFINITIONS

.....

1.1.

1.2.

1.3.

1.3.1.

1.3.2.

1.3.3.

1.3.4.

1.3.5.

2. INFORMATION THAT IS ADDITIONAL TO THE COMPONENT TYPE-APPROVAL MARK FOR DIRECTION INDICATORS:

2.1.

2.2.

3. GENERAL REQUIREMENTS

.....

4. INTENSITY OF THE LIGHT EMITTED

.....

4.5.

4.6.

4.7.

4.7.1.

4.7.2.

4.7.3.

4.8.

4.9.

4.10.

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4.11.
5. CONDITIONS ATTACHED TO THE TESTS

- 5.1.
- 5.2.

6. COLOUR OF LIGHT EMITTED

.....
.....
.....

7. FRONT AND REAR FOG-LAMPS

.....

8. REVERSING LAMPS

.....

9. RETRO-REFLECTORS

9.1. Pedal retro-reflectors

9.1.1.

9.1.2.

9.1.3.

9.2. Other retro-reflectors

.....

Appendix 1

Minimum horizontal (H) and vertical (V) angles of spatial light distribution

.....

Appendix 2

Photometric measurements

1. METHODS OF MEASUREMEMENT

1.1.

1.2.

1.2.1.

1.2.2.

1.2.3.

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- 2. STANDARDIZED TABLE SHOWING SPATIAL DISTRIBUTION OF LIGHT
.....
- 2.1.
- 2.2.
- 3. PHOTOMETRIC MEASUREMENT OF LAMPS EQUIPPED WITH SEVERAL LIGHT SOURCES
.....
- 3.1.
.....
- 3.2.
.....

Appendix 3

Photometric measurements of the rear registration-plate illuminating device

- 1. POSITION TO BE ILLUMINATED
.....
- 2. COLOUR OF LIGHT EMITTED
.....
- 3. LIGHT INDICENCE
.....
.....
- 4. METHOD OF MEASUREMENT
.....
.....
- 5. PHOTOMETRIC CHARACTERISTICS
.....
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Appendix 4

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Appendix 5

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ANNEX III

REQUIREMENTS RELATING TO THE COMPONENT TYPE-APPROVAL OF DEVICES (HEADLAMPS) USING INCANDESCENT OR HALOGEN FILAMENT LAMPS EMITTING A PASSING AND/OR DRIVING BEAM FITTED TO TWO OR THREE-WHEEL MOTOR VEHICLES

1. DEFINITIONS

- 1.1.
1.2.
1.3.
1.3.1.
1.3.2.
1.3.3.
1.3.4.
1.3.5.
1.3.6.
1.3.7.

2. HEADLAMPS

- 2.1. Headlamps for mopeds
2.2. Headlamps for motorcycles and tricycles
2.3. Headlamps for motorcycles and tricycles

ANNEX III-A

HEADLAMPS FOR MOPEDS

1. GENERAL REQUIREMENTS

- 1.1.
1.2.

2. SPECIFIC REQUIREMENTS

- 2.1.
2.2.

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- 2.3.
- 2.4.
- 2.5.
- 3. ADDITIONAL REQUIREMENTS ATTACHED TO ANY INSPECTIONS WHICH MAY BE CARRIED OUT BY THE COMPETENT AUTHORITIES WHEN CHECKING CONFORMITY OF PRODUCTION IN ACCORDANCE WITH SECTION 5.2.4 OF ANNEX I

.....

Appendix 1

Photometric tests on headlamps equipped with category S₃ and S₄ lamps

- 1.
 - 2. REQUIREMENTS ATTACHED TO PASSING BEAM
 - 2.1.
 - 2.2.
 - 2.3.
 - 2.3.1.
 - 2.3.2.
 - 2.3.3.
 - 3. REQUIREMENTS CONCERNING THE DRIVING BEAM (if any)
 - 3.1.
 - 3.1.1.
 - 3.1.2.
 - 3.1.3.
- MEASURING SCREEN

.....

Appendix 2

Photometric tests on headlamps equipped with category HS₂ halogen lamps

- 1.
- 2.
- 3.
- 4.

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5.
MEASURING SCREEN

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Appendix 3

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Appendix 4

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ANNEX III-B

HEADLAMPS FOR MOTORCYCLES AND TRICYCLES EMITTING A SYMMETRICAL PASSING BEAM AND A DRIVING BEAM BY MEANS OF FILAMENT LAMPS

1. ADDITIONAL REQUIREMENTS CONCERNING MARKS AND THE MARKING OF SPECIFIC DEVICES

1.1.

1.2.

1.3.

2. GENERAL REQUIREMENTS

2.1.

2.2.

2.2.1.

.....

2.2.2.

2.3.

2.4.

2.5.

3. SPECIFIC REQUIREMENTS

3.1.

3.2.

.....

3.3.

3.4.

3.5.

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4. ADDITIONAL REQUIREMENTS APPLYING TO ANY INSPECTIONS WHICH MAY BE CARRIED OUT BY THE COMPETENT AUTHORITIES WHEN CHECKING CONFORMITY OF PRODUCTION IN ACCORDANCE WITH SECTION 5.1 OF ANNEX I

- 4.1.
-
- 4.2.
- 4.3.
-
-
-

Appendix 1

Photometric tests

- 1.
- 2.
- 3.
- 4.
- 4.1.
- 4.2.
- 4.3.
- 4.4.
- 4.4.1.
- 4.4.2.
- 4.5.
- 5. MEASURING AND ADJUSTING SCREEN
-

Appendix 2

Test on the stability of the photometric behaviour of headlamps in operation

-
-

Appendix 3

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Requirements for lamps incorporating lenses of plastic material and testing of lens or material samples and of complete lamps

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Appendix 4

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Appendix 5

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ANNEX III-C

HEADLAMPS FOR MOTORCYCLES AND TRICYCLES EMITTING AN ASYMMETRICAL PASSING BEAM AND A DRIVING BEAM AND FITTED WITH HALOGEN FILAMENT LAMPS (HS₁ LAMPS) OR FILAMENT LAMPS OF CATEGORY R₂

1. ADDITIONAL REQUIREMENTS CONCERNING MARKS AND THE MARKING OF DEVICES

- 1.1.
1.2.
1.3.
1.4.
1.5.
1.6.
1.7.
1.8.

2. GENERAL REQUIREMENTS

- 2.1.
2.2.
2.2.1.
.....
2.2.2.
2.3.
2.4.
2.5.
2.6.

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- 2.7.
- 3. ILLUMINATION REQUIREMENTS
- 3.1. General requirements
- 3.1.1.
- 3.1.2.
- 3.1.3.
-
- 3.1.4.
- 3.1.5.
- 3.2. Requirement relating to the passing beam
- 3.2.1.
- 3.2.2.
- 3.2.2.1.
- 3.2.2.2.
- 3.2.2.3.
- 3.2.3.
- 3.2.4.
- 3.2.5.
- 3.2.6.
- 3.2.7.
- 3.3. Requirements concerning the driving beam
- 3.3.1.
- 3.3.2.
- 3.3.2.1.
- 3.3.2.2.
- 3.4.
- 4. REFERENCE HEADLAMP
-
- 4.1.
- 4.2.
- 4.3.

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- 4.3.1.
- 4.3.2.
- 5. **ADDITIONAL REQUIREMENTS ATTACHED TO ANY INSPECTIONS WHICH MAY BE CARRIED OUT, BY THE COMPETENT AUTHORITIES WHEN CHECKING CONFORMITY OF PRODUCTION ACCORDING TO SECTION 5.1 OF ANNEX I**
- 5.1.
- 5.2.
- 5.2.1.
- 5.3.
- 5.4.
- 5.5.

Appendix 1

Measuring screen

UNIFORM Headlamp for driving on the right
EUROPEAN
BEAM

.....

Appendix 2

Tests on the stability of the photometric performance of headlamps in operation

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Appendix 3

Requirements for lamps incorporating lenses of plastic material
and testing of lens or material samples and of complete lamps

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Appendix 4

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Appendix 5

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ANNEX III-D

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HEADLAMPS FOR MOTORCYCLES AND TRICYCLES EMITTING AN ASYMMETRICAL PASSING BEAM, A DRIVING BEAM AND FITTED WITH HALOGEN FILAMENT LAMPS OTHER THAN HS₁ LAMPS

1.	ADDITIONAL REQUIREMENTS CONCERNING MARKS AND THE MARKING OF DEVICES
1.1.	.....
1.2.	.....
1.3.	.....
1.4.	.....
1.5.	.....
1.6.	.....
1.6.1.	.....
1.6.2.	.....
1.6.3.	.....
1.6.4.	.....
1.6.5.	.....
1.6.6.	.....
2.	GENERAL SPECIFICATIONS
2.1.
2.2.
2.2.1.
2.3.
.....
2.4.
2.5.
2.5.1.
2.5.2.
2.5.3.
2.5.4.
2.6.
2.7.
3.	ILLUMINATION

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3.1. General provisions

3.1.1.

3.1.2.

3.1.3.

.....

3.1.4.

3.1.5.

3.2. Provisions regarding passing beams

3.2.1.

3.2.2.

3.2.2.1.

3.2.2.2.

3.2.2.3.

3.2.3.

3.2.4.

3.2.5.

3.2.6.

3.2.7.

.....

3.2.8.

3.3. Provisions regarding driving beams

3.3.1.

3.3.2.

3.3.2.1.

3.3.2.1.1.

.....

3.3.2.1.2.

.....

3.3.2.2.

3.4.

4. GAUGING DISCOMFORT

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-
- 5. STANDARD HEADLAMP
 - 5.1.
 - 5.1.1.
 - 5.1.2.
 - 5.1.3.
 - 5.1.3.1.
 - 5.1.3.2.
- 6. ADDITIONAL REQUIREMENTS ATTACHED TO ANY INSPECTIONS WHICH MAY BE CARRIED OUT BY THE COMPETENT AUTHORITIES WHEN CHECKING CONFORMITY OF PRODUCTION IN ACCORDANCE WITH SECTION 5.1 OF ANNEX I
 - 6.1.
 - 6.2.
 - 6.2.1.
 - 6.3.
 - 6.4.
 - 6.5.

Appendix 1

Measuring screen

Standard European beam

- A. Headlamp for right-hand traffic
.....
- B. Headlamp for left-hand traffic
.....
- C. Measuring points for illumination values
.....

Appendix 2

Tests on the stability of the photometric performance of headlamps in operation

TESTS ON COMPLETE HEADLAMPS

.....

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1. TEST OF STABILITY OF PHOTOMETRIC PERFORMANCE

.....

1.1. Clean headlamp

.....

1.1.1. Test procedure

.....

1.1.1.1.

1.1.1.2.

.....

1.1.2. Test results

1.1.2.1.

.....

1.1.2.2.

.....

.....

.....

.....

.....

.....

.....

1.2. Dirty headlamp,

.....

1.2.1. Preparation of the headlamp

1.2.1.1.

.....

.....

1.2.1.2.

.....

.....

1.2.1.3.

.....

2. TEST FOR CHANGE IN VERTICAL POSITION OF THE CUT-OFF LINE UNDER THE INFLUENCE OF HEAT

.....

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.....
2.1. Test
.....
.....
.....

2.2. Test results
.....
2.2.1.
.....
.....

Appendix 3

Requirements for lamps incorporating lenses of plastic material
and testing of lens or material samples and of complete lamps

- 1. GENERAL SPECIFICATIONS
 - 1.1.
 - 1.2.
 - 1.3.
 - 1.4.
- 2. TESTS
 - 2.1. Resistance to temperature changes
 - 2.1.1. Tests
.....
.....
.....
 - 2.1.2. Photometric measurements
 - 2.1.2.1.
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.....
.....
.....

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2.1.2.2.

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2.2. Resistance to atmospheric and chemical agents

2.2.1. Resistance to atmospheric agents

.....

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2.2.2. Resistance to chemical agents

.....

2.2.2.1.

.....

2.2.2.2.

.....

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.....

2.2.2.3.

.....

.....

2.2.3. Results

2.2.3.1.

.....

2.2.3.2.

.....

2.3. Resistance to detergents and hydrocarbons

2.3.1. Resistance to detergents

.....

.....

2.3.2. Resistance to hydrocarbons

.....

2.3.3. Results

.....

.....

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2.4. Resistance to mechanical deterioration

2.4.1. Mechanical deterioration method

.....

2.4.2. Results

.....

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.....

.....

2.5. Test of adherence of coatings, if any

2.5.1. Preparation of the sample

.....

2.5.2. Description of the test

.....

.....

2.5.3. Results

.....

2.6. Tests of the complete headlamp incorporating a lens of plastic material

2.6.1. Resistance to mechanical deterioration of the lens surface

2.6.1.1.

.....

2.6.1.2.

.....

2.6.2. Test of adherence of coatings, if any

.....

3. VERIFICATION OF THE CONFORMITY OF PRODUCTION

3.1.

3.1.1.

3.1.2.

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3.2.

Appendix 3.1

Chronological order of approval tests

A.

B.

Appendix 3.2

Method of measurement of the diffusion and transmission of light

1. EQUIPMENT (see figure)

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.....
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2. MEASUREMENT

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Appendix 3.3

Spray testing method

1. TEST EQUIPMENT

1.1. Spray gun

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.....

1.2. Test mixture

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2. TEST

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Appendix 3.4

Adhesive tape adherence test

1. PURPOSE

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2. PRINCIPLE

.....

3. SPECIFIED ATMOSPHERIC CONDITIONS

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4. TEST-PIECES

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5. PROCEDURE

.....

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.....

6. RESULTS

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Appendix 4

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Appendix 5

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ANNEX IV

INCANDESCENT LAMPS INTENDED FOR USE IN COMPONENT TYPE-
APPROVED LAMPS FOR MOPEDS, MOTORCYCLES AND TRICYCLES

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- 1. APPLICATION FOR THE COMPONENT TYPE-APPROVAL OF A FILAMENT LAMP
 - 1.1.
 - 1.1.1.
 - 1.1.2.
 - 1.1.3.
 - 1.2.
 - 1.2.1.
 - 1.2.2.
- 2. ADDITIONAL REQUIREMENTS CONCERNING THE MARKING OF AND MARKS ON FILAMENT LAMPS
 - 2.1.
 - 2.1.1.
 - 2.1.2.
 - 2.1.3.
 - 2.1.4.
 - 2.1.5.
 - 2.2.
 - 2.3.
- 3. COMPONENT TYPE-APPROVAL OF A FILAMENT LAMP
 - 3.1.
 - 3.2.
 - 3.3.
- 4. TECHNICAL REQUIREMENTS
 - 4.1.

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- 5. CONFORMITY OF PRODUCTION
 - 5.1.
 - 5.2.
 - 5.3.

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Category R₂ lamps

SHEET R₂/1

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SHEET Position and dimensions of shield and filaments
R₂/2

.....
.....

SHEET R₂/3

Appendix 2

Category H₁ lamps

SHEET H₁/1

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.....

SHEET H₁/2
SHEET H₁/3

SHEET Screen projection requirements
H₁/4

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Appendix 3

Category H₂ lamps

SHEET H₂/1

.....
.....

SHEET H₂/2
SHEET H₂/3

SHEET Screen projection requirements
H₂/4

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Appendix 4

Category H₃ lamps

SHEET H₃/1

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SHEET H₃/2 Definition: Ring centre and reference axis (²) Filament dimensions and tolerances for standard filament lamps, see sheet H₃/3

SHEET H₃/3
SHEET H₃/4

SHEET Screen projection requirements
H₃/5

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Appendix 5

Category H₄ lamps

SHEET H₄/1

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SHEET Characteristics
H₄/2
SHEET H₄/3

SHEET H₄/4

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SHEET ADDITIONAL EXPLANATIONS TO SHEETS H₄/3 AND H₄/4
H₄/5

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SHEET Table of the dimensions referred to in the diagrams on sheets H₄/3 and H₄/4 (in mm)
H₄/6
SHEET H₄/7

Appendix 6
Category HS₁

SHEET HS₁/1
.....
.....

SHEET Characteristics
HS₁/2

SHEET Table of the dimensions referred to in the diagrams on sheets HS₁/4 and HS₁/5 (in mm)
HS₁/3

SHEET Position of filaments
HS₁/4
.....

SHEET Position of shield
HS₁/5
.....

SHEET ADDITIONAL EXPLANATION TO SHEETS HS₁/4 AND HS₁/5
HS₁/6

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SHEET HS₁/7

Appendix 7
Category HB₃

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SHEET HB₃/1

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SHEET HB₃/2

SHEET HB₃/3

SHEET Screen projection requirements
HB₃/4

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Appendix 8

Category HB₄

SHEET HB₄/1

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SHEET HB₄/2

SHEET HB₄/3

SHEET Screen projection requirements
HB₄/4

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Appendix 9

Category H₇

SHEET H₇/1

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SHEET H₇/2

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SHEET H₇/3

SHEET Screen projection requirements
H₇/4

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Appendix 10

Category HS₂

SHEET HS₂/1

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SHEET HS₂/2

SHEET Screen projection requirements
HS₂/3

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Appendix 11

Category S₁ and S₂

SHEET S₁/S₂/1

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SHEET Category S₁ and S₂ filament lamps — Dimensions
S₁/S₂/2

SHEET ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS
S₁/S₂/3

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Category S₁ filament lamp
Category S₂ filament lamp

Appendix 12

Category S₃

SHEET S₃/1

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Appendix 13

Category S₄

SHEET S₄/1

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SHEET S₄ filament lamp for moped headlamp
S₄/2

SHEET S₄/3

Appendix 14

Category P21W

SHEET P21W/1

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SHEET Screen projection requirements
P21W/2

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Test procedure and requirements

1.

2.

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3.

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3.1.

3.2.

Appendix 15

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

Category P21/5W

SHEET P21/5W/1

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SHEET Screen projection requirements P21/5W/2

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Test procedure and requirements

1.
2.
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- 2.1.
- 2.2.
- 2.2.1.
- 2.2.2.
- 2.2.3.
3.
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- 3.1.
- 3.2.
- 3.3.

SHEET P21/5W/3

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Appendix 16

Category R5W

SHEET R5W/1

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Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

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Appendix 17

Category R10W

SHEET R10W/1

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Appendix 18

Category T4W

SHEET T4W/1

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Appendix 19

Category C5W

SHEET C5W/1

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Appendix 20

Category C21W

SHEET C21W/1

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SHEET Screen projection requirements
C21W/2

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Test procedure and requirements

1.

2.

2.1.

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

2.2.

Appendix 21

Category W3W

SHEET W3W/1

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Appendix 22

Category W5W

SHEET W5W/1

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Appendix 23

Example of the arrangement of the approval mark

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Appendix 24

Luminous centre and shapes of lamp filaments

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